jean-françoispambrun

researcher | engineer | software developer

about	education	on	
(514) 222-2085 6783 chambord montréal canada	2011-2016	Ph.D. in electrical engineering improving medical image compression and transm	École de technologie supérieure (ÉTS) ission
	2009-2010	M.Sc. in electrical engineering (incomplete [‡]) evaluation of the diagnostic quality of lossy complete	École de technologie supérieure (ÉTS) ressed medical images
jf.pambrun@gmail.com linkedin://jpambrun github://jpambrun http://jfpb.net	2005-2009	B.ing. in electrical engineering information technologies and telecommunication	École de technologie supérieure (ÉTS)
languages	experience		
french/english	2016 (dec-)	software developer cloud-based diagnostic workstation with client-sic	nucleus.io
programming java, javascript matlab, python linux, git, c, c++ latex, tensorflow standards dicom, ihe, hl7 jpeg 2000, jpip interests medical imaging image compression deep learning rendering	2016 (jun-dec)	postdoctoral fellow MR-TRUS fusion and segmentation using deep ne	CHUM research centre ural networks
	2009-2016	lecturer procedural programming (inf1005a) software development environment (ele116) image processing and analysis (ele747)	École polytechnique de montréal & ÉTS
	2007-2014	teaching assistants healthcare distributed systems (gts840) software development environment (ele116) image processing and analysis (ele747)	École de technologie supérieure (ÉTS)
	2009 (01-09)	software developer head-up display simulation for military flight simul	CAE inc.
	2006-2008	research assistant École de technologie supérieure (ÉTS) implementation of a standard compliance validation tool for hI7v3 implementation and evaluation of a medical image streaming framework	
† not a member of the OIQ ‡ fast-track doctoral admission without obtaining a master's degree	awards		
	2017	NSERC postdoctoral fellowship (declined)	90,000\$
	2017	FRQNT postdoctoral fellowship (declined)	70,000\$
	2016	GRSTB postdoctoral fellowship	18,000\$
	2011	NSERC doctoral Alexander-Graham-Bell schol	arship 105,000\$
	2011	ÉTS excellence graduate student scholarship	60,000\$
	2011	FRQNT doctoral research scholarship (decline	d) 60,000\$

FRQNT master's research scholarship

NSERC undergraduate student research awards

30,000\$

4.500\$

2009

2006

publications

articles in peer-reviewed journals

The utilization of MRI in the operating room

Ménard C, Pambrun J-F, Kadoury S

Brachytherapy, Elsevier, 2017

Computed Tomography Image Compressibility and Limitations of Compression Ratio-Based Guidelines

Pambrun J.F., Noumeir R.

Journal of Digital Imaging. Springer Science, 2015

Teaching DICOM by Problem Solving.

Noumeir R., Pambrun J.F.

Journal of Digital Imaging. Springer Science, 2012

Streaming of medical images using JPEG2000 interactive protocol

Pambrun J.F., Noumeir R.

International Journal of Innovative Computing and Applications. 2012

Using JPEG 2000 Interactive Protocol to Stream a Large Image or a Large Image Set

Noumeir R., Pambrun J.F.

Journal of Digital Imaging. Springer Science, 2010

international peer-reviewed conferences/proceedings

Limitations of the SSIM quality metric in the context of diagnostic imaging

Pambrun J.F., Noumeir R.

IEEE International Conference on Image Processing (ICIP), 2015

Compressibility variations of JPEG2000 compressed computed tomography

Pambrun J.F., Noumeir R.

IEEE International Conference of the Engineering in Medicine and Biology Society (EMBC), 2013

Perceptual quantitative quality assessment of JPEG2000 compressed ct images with various slice thicknesses

Pambrun J.F., Noumeir R.

IEEE International Conference on Multimedia and Expo, 2011

Interoperability testing of integration profiles based on HL7 standard version 3

Pambrun J.F., Noumeir R.

IEEE International Conference on Information Technology and Applications in Biomedicine, 2010

Hands-on Approach for Teaching HL7 version 3

Noumeir R., Pambrun J.F.

IEEE International Conference on Information Technology and Applications in Biomedicine, 2010

Streaming of Medical Images Using JPEG 2000 Interactive Protocol

Noumeir R., Pambrun J.F.

IEEE International Conference on Systems, Signals and Image Processing. 2010

Interoperability Testing Software for Sharing Medical Documents and Images

Berube R., Pambrun J.F, Noumeir R.

 ${\it IEEE International Conference on Internet and Web Applications and Services.}\ 2010$

Images within the Electronic Health Record

Noumeir R., Pambrun J.F.

IEEE International Conference on Image Processing. 2009